The RARS EXCITER

Issue 223 October 1988 Club Call: W4DW Repeater: W4DW / R 146.04/64 MHz

LEADING EDGE

SHERMAN STARNES W4TZU

While it is exciting to operate through the new OSCAR-13, as I've indicated before, it is somewhat expensive for one who wants to dabble in satellite communications just to see what it is like. Working through AO-13 requires gain antennas for transmitting and receiving, rotators for azimuth and elevation, a 2-meter SSB and CW receive capability that is barely short of moonbounce reception, and 100 watts output on 435 mHz. You can see the greenbacks separated by commas in that sentence.

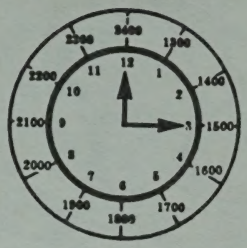
Fortunately, there is a way to sample satellite communications without a home equity loan. My first satellite contact from my home station was made by hand-keying the microphone on my new synthesized two-meter FM rig using a vertical beam fixed on due south. My son, WB4UYT, sitting 15 feet away, received W4AT in Florida on ten meters on a HF receiver connected to a 80 meter dipole.It gave me goosebumps. (It still does sometimes.)

I was operating on what we call "mode A", ie., up on two meters and down on ten meters. Equipmentwise, it is about as simple as it gets. I don't recommend a steady diet of operation such as my first contact, but it is worth a try one time.

Let's look at a respectable mode A setup. The ten-meter downlink antenna should be at least a dipole, resonant about 29.400 mHz. A rotatable beam would be better but your tribander, if you have one, is ideal. The feedline can be anything you normally use on ten meters. Your HF receiver or transceiver may be adequate. If you can hear an increase in noise when you connect the feedline, you're probably o.k. If not, a simple ten meter preamp is in order. Regardless of the mode, the downlink should be the best you can possibly afford. Fortunately, a good ten meter downlink is easy and inexpensive to establish if you already have an HF station.

See Leading Edge, Page 8

Editor: Vince Yakamavich, AA4MY - 220 Carriage Trail, Raleigh, NC 27614 - 847-8512



MINUTES OF THE MEETING

The regular monthly meeting of The Raleigh Amateur Radio Society was held Sept. 7, 1988 at the YMCA on Hillsborough Street. President Pete Thacher, N4HQZ, called the meeting to order and welcomed the 74 members and 15 guests.

In the last issue of QST, there was an article about the 50th Anniversary of W1AW. Fifty years ago, W4DW sent a message to W1AW. Recently, Pete sent two messages via packet radio to ARRL Headquarters. The first message stated RARS is now the proud owners of the W4DW call, and the second message was a repeat of the original message sent by H.L. Cavindish. This idea was credited to Walter, AB4DQ.

Anita, KC4AQB, told the group of the upcoming RARS picnic to be held Sept. 24 at the Westinghouse plant picnic shelter. Many activities are scheduled. Members will be contacted by phone.

Ed, WA4PEN, informed the members of progress with the VHF/UHF Special Interest Group (SIG).

Johnnie, WA9SZL, updated everyone with the Homebrew SIG. Plans are underway to build low cost 2 meter amplifiers thru quantity discounts.

Edward, N4SSU, reported on the Public Service SIG. The NC Bicycle Club needs our help Sept. 11 with communications. The State Fair will be coming up Oct. 14-23. Our help is needed at the Red Cross Communications Center. There are 60 slots to fill, 3 shifts per day, 2 people per shift. Ed passed around a sign up sheet.

The November meeting will host the Annual Auction. The Sept. minutes erroneously stated the auction was in October.

The President reviewed the proposed budget for fiscal year 1989. Following some discussion, a motion was passed to approve the budget as presented.

Jim, N4BYO, announced the next series of classes at the McKimmon Center will be postponed until Oct. 10. There will be a special series of classes for gifted children age 9-15 at Meredith College. Approx. 6 sessions are planned. If you would like to help with either of these classes, contact Jim.

The upcoming ARRL Roanoke Division Directors election was discussed by Bruce, WA9NEW. John Kanode, N4MM, and Claude Feighley, W3ATQ, are competing for this position.

Due to the guest speaker canceling at the last moment, there was no program. A prize was given and the meeting adjourned, followed by fellowship.

Sue Meyer Parks, WB4USX RARS Secretary

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SPECIAL CONGRATULATIONS!!

Peggy Price, N4SSS, gave birth to a 9 lb, 3oz. boy on Friday, Sept. 16th, at approx. 3:57 A.M. Proud dad is Walter, KM4BU. Both parents report MANY sleepless nights. Congrats to N4SSS & KM4BU!!

==> IMPORTANT!! <==

If there is a RED MARK across your mailing label, this will be the LAST issue of the EXCITER sent to you, and your name will be dropped from the RARS Membership roster.

The 88 / 89 dues were due July 1st. Postage-paid envelopes were provided for your dues in the July EXCITER. The September issue contained a "gentle reminder"....

Section 4 of the Club's By-Laws reads: "All dues must be paid within thirty (30) days (grace period) of their due date. Failure to pay dues within the grace period shall cause automatic suspension of the membership of the nonpaying member."

The club DEPENDS upon the prompt payment of dues to pay for the benefits to club members, such as the auto-patch, the room rental & complementary food and drink provided at the meetings, printing and postage expenses for the EXCITER, and a lot more.

There are over 100 members still delinquent. This amounts to a reduction of $1,000 in the club's available operating capitol.

Mail your $10 dues check to Tim Buehlmann, N4IQA, 1314 Chaney Rd., Raleigh, 27606.

Sometimes, mistakes happen. If you have already paid your 88 / 89 dues, and there is a RED MARK on your mailing label, please call Tim (254-2351 office or 851-7738 home) and get the matter resolved.

WELCOME
NEW MEMBERS

AB4FR	Clay Brown, Raleigh
KC4GRT	Thomas Campbell, Raleigh
KK4YP	Ellis Kirk, Selma
WB4CJQ	Darrell Epperson, Wake Forest
N4TDY	Charlie Fields, Raleigh
KC4CPH	Joseph T. Hayes III, Raleigh
WA4LYN	John F. Prescott III, Raleigh
KC4GRV	Willis Shackleford, Creedmore
K3SPC	Joseph J. Snyder, Raleigh
KC4GNM	Mike Rosenberg, Raleigh
WD4MYM	Jim Crockrell, Knightdale

We welcome you to our fine organization, and hope you will choose to become active in one (or more!) of our on-going activities.

With the addition of these fine folks, RARS now shows 294 members on the roster!!

Also, new calls for existing members:

KC4GBR	Tony Burchette
KC4GFP/KT	Doctor Aal-Anubia, and
KM4AK/AE	Dave Williams

(Congratulations!!)

OCTOBER BIRTHDAYS

N2HJK	Paul Allikas
KA1CYF	Ray Bordt
	Bill Jurney
WA2SRZ/AE	Vincent Manoogian
N4RWZ	Rahul Patel
WB5ZPQ	Joe Saah
K4SAN	David Thomas
KC4CPC	Marlene Thomas

Public Service Watch

By the time you read this column, we will have hopefully filled all of the NC State Fair Red Cross operator positions. Elsewhere in the EXCITER is a copy of the sign-up sheet for the Fair. Please check your slots and see that they are correct. If you see an error, reach me via phone (787-8874) or on the repeater. If you must make a change during the Fair, please contact me as soon as possible. While we will have some alternate hams available, please try not to change your schedule if at all possible.

For those of us who have not worked the Red Cross communications room before, there will be an orientation meeting on Sunday, Oct. 9th at 2 PM at the Red Cross building on the Fairgrounds. Try to attend so we can all get the procedures down before we work our shifts. Remember, our professionalism reflects on us, RARS and Amateur Radio!

As of this writing, I do not have the Fair tickets or parking passes. I will meet with Red Cross officials on the Sunday before (Oct. 2) the regular RARS meeting and will have details regarding these matters at the Oct. RARS meeting. If you can't attend the Oct. meeting, and are scheduled to work, give me a call.

Let me thank each of you who have volunteered to help and especially to those of you who are working several shifts during the Fair. You exemplify the spirit of Amateur Radio - emergency communications service.

The next Public Service meeting will be on Nov. 9 at 8 PM at my home. See you then.

Edward Breeden, N4SSU

VE-REPORT

The September 7th test session took a drastic turn-about to become one of our best to date. The VE's arrived at 7:00 PM to find the exam room all set up for a breakfast, complete with table cloths, china & silverware! Seems the folks at the Y thought they'd get a head start on setting up the room for another user.... Although most cordial, it took almost 15 min utes of "gentle persuasion" to convince them that no, we couldn't use the same room as the meeting, and no, we couldn't do it in the hall, and no, the other available room was just too dang small! Thanks to the diplomatic efforts of KB4LAF et. al., the honcho at the Y gave the magic word, and their workers started clearing our exam room.

Undaunted by the "misunderstanding", the 7 RARS VE's took their positions and the testing began.

The results:

RARS Members:
Patrick Paul, N4SSL, Tech —> Adv
V. Manoogian, WA2SRZ, Adv —> Extra.
Glenn Lassiter, KC4DHS, Gen —> Adv
Chris Hux, N4PNO, Advanced Theory

Non-RARSites:
Alan Hughes, KB4UAO, Tech —> Adv
Tom Campbell, KC4GRT, Novice —> Gen
David Love (no license) —> General!
Steven Harbin (no license) —> Advanced!!
David Farley (no license) —> Advanced!!
Douglas Latta, KC4FNH, Novice —> Tech
Chris Lassiter, KC4EOG, Tech —> Gen

New code tapes were in use thanks to Chet, KB4LAF, & it's interesting to note that NO ONE failed 13 wpm!! Four took it, and all 4 passed!! (Twenty WPM, however, still took a 50% toll...). Final pass rate: 53%

RARS VE's helping out: KB4LAF, K4FAD, KN4G, WA4GIR, WA2TBQ, AB4EL, AB4FY, & AA4MY.

To all who made it, CONGRATULATIONS! And to those non-RARSites, we hope we made a favorable impression on you, and would like to see you again at one of our club's meetings! To the VE's who did the work: THANKS!

Next RARS exams at the October & December meetings; WM4P's group will hold exams sometime in November at St. Aug's college.

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Meeting Programs

President Pete advises the following programs/speakers for upcoming meetings:

October — Ham Operations in Germany, given by John Fish, N4SHX; as well as a talk on the Handi-Hams Camp by Dave Williams, KM4AK.

November — Annual RARS Auction.

December — Presentations by Special Interest Groups (each group will have 30 minutes available. SIGs, please plan accordingly!).

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ARRL — Our Voice In Washington

HAMS TO GET NEW BAND!!

QST DE W1AW
HR ARRL NR 97 (ARLB097)
FROM ARRL HEADQUATERS
NEWINGTON, CT SEPTEMBER 09, 1988

TO ALL RADIO AMATEURS:

THE FCC HAS ISSUED A PROPOSAL, DOCKET 87 467, TO PERMIT AMATEUR OPERATION IN THE 17 METER BAND, 18.068 THROUGH 18.168 MHZ. IN THIS PROPOSAL, THE ENTIRE 17 METER BAND WILL BE AVAILABLE FOR GENERAL, ADANCED AND EXTRA CLASS LICENSEES WITH A MAXIMUM POWER LIMIT OF 1.5 KW
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W200DW VOLUNTEERS:

The W200DW volunteers are requested to attend a short organizational meeting in preparation for the special event celebration scheduled for November 19th to 25th.

The meeting will be held at 7:00 PM in the YMCA Meeting Room #3 (across the hall from where the regular RARS club meetings are held) on Thursday, October 13th. Please make every effort to attend.

73,

Walter, AB4DQ

CLIPPINGS
FROM THE EDITOR'S DESK

EDITOR'S HONOR ROLL

Anita Kellum, KC4AQB
Sonny Kellum, WA4JWE
John Thomas, KK4JB
Craig Hales, N4RED
Edward Griest, N4SWC
Jay Diepenbrock, KM4EP
Joey Yakamavich

These fine folks came to my rescue last month. On the way home from the printer's shop, it looked as if I would have NO help with the fold & staple. I guess I let my temper & frustration get the best of me and they somehow seeped into my conversations on W4DW. Even before I arrived home, people were calling to say they had overheard the conversation and volunteered to help. Once again, my hat is off to you folks.

WHAT'S IN IT FOR ME?

I get phone calls ... boy do I get phone calls. At least 2 or 3 times a week it seems, I'm on the phone talking to a ham, or a prospective ham who has seen my name and phone number on the EXCITER and want's to learn more about our RARS organization. Most of the time, I thoroughly enjoy promoting RARS, and ham-radio. My wife says I'm like an old lady, I talk so much.

I had a call the other night, from a "fellow" ham who said he lived here in Raleigh, and was interested in RARS. He was definitely no kid, and when asked about the dues, & I told him what they were. His next statement was "That's an awful lot of money.

I gave it my best shot, describing all the non-tangible benefits our club has to offer. Activities, meetings, exams, training, nets, the EXCITER, the repeater, special interest groups, public service, and most of all, the fellowship we share in the club.

He came back with "... but that's not worth $10." I knew right then it was a lost cause. He never did join. And I don't think we'll miss him, either.

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This issue marks a new era for the EXCITER. Walter Price, KM4BU, has offered to do the paste-up electronically, and we'll be going to the printer's with a LASER printed master, rather than a copy of a copy. The result of this change should be an improvent in print quality.

Thanks, Walter.

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Now that we've improved the quality of the print, how 'bout improving the CONTENT of the print?? How 'bout some more articles from YOU, the membership! Certainly we all have our areas of "expertize," or interesting anecdotes gained from hamming, or just life in general. I accept copy in almost any form you can get it to me.

Till next month, 73 de AA4MY

YELLOW PAGES HAVE RED FACES

Incorrect addresses or phone numbers are an unfortunate way of life with the Yellow Pages, but a simple misspelled word can cause even greater trauma. Take the case of a travel agency in California, and the ad placed in Pacific Bell's Yellow Pages.

According to the Wall Street Journal, the agency, Banner Travel of Sonoma California, tried to say the company specializes in "exotic" travel.

But a typographical error changed the agency's specialty to "erotic" travel.

Calls by the hundreds started to come in. One caller wanted to know where he could find naked women; another was interested in locating the nearest harem.

"But many people are legitimately looking for an erotic trip," says George Altenberg, a spokesman for the agency.

Naturally, Banner complained to Pacific Bell Directory, which offered to pay for the ad. But Banner decided to file a $10 million suit in county court in Santa Rosa, California. In response, a Pacific Bell spokeswoman calls the typo "terribly unfortunate".

"It wasn't a total loss however. We did get the address and phone number right," she says!

(from TE&M Magazine, Sept. '88)

WANTED!!!

Good HF rig, suitable for mobile installation.
Joe, N4LQW @ 872-8853

WEFAX FREQUENCIES

Some of the newer Terminal Node Controllers have the capability for recieving WEFAX (weather fascimile) photographs. The following list was found on a land-line BBS.

FREQUENCY	MODE	LOCATION (KHZ)
03,357.0	USB	WEATHER
04,268.0	USB	WEATHER
04,271.0	USB	HALIFAX, CANADA
04,346.0	USB	SAN FRANCISCO, CA
04,793.5	USB	WASHINGTON, DC
04,802.5	USB	HAWAII
04,975.0	USB	WEATHER
06,946.0	USB	WEATHER
07,770.0	USB	HAWAI
08,080.0	USB	NORFOLK, VA
08,459.0	USB	ALASKA
08,502.0	USB	BOSTON, MASS
08,646.0	USB	SAN DIEGO, CA
08,682.0	USB	SAN FRANCISCO, CA
09,157.5	USB	MOBILE, AL
09,389.5	USB	BRENTWOOD, NY
09,440.0	USB	HAWAII
09,890.0	USB	HALIFAX, CANADA
10,185.0	USB	WASHINGTON, DC
10,680.7	LSB	PHOTOGRAPHS
10,854.0	USB	NORFOLK, VA
10,865.0	USB	WEATHER
11,035.0	USB	BRENTWOOD, NY
11,090.0	USB	HAWAII
12,125.0	USB	WEATHER
12,201.0	USB	WASHINGTON, DC
12,730.0	USB	SAN FRANCISCO, CA

Happy Tuning!!

NC State Fair /Red Cr

As of Press time, most of the N.C. State Fair/Red Cross Communication
weekday afternoons (2-7 PM) and some evenings (7PM to 12 Midnight).
please consider helping out for a shift. Call me and leave a message if I a

Thanks
Edward - N

	Fri 10/14	Sat 10/15	Sun 10/16	Mon 10/17	Tue 10/18
9 AM to 2 PM	AB4DQ Walter WA4PEN Ed	WB4NIM Diane N4BYO Jim	KC9VJ Jim KC4AQC RENARD	W2ULO John W4YC Ed	W2ULO John W4YC Ed
2 PM to 7 PM	WA4MJF Ronnie W1HZQ Cole	KC4CPK MaryBeth WA2TBQ Ron	KM4EP Jay N4SSU Edward	KB4LEN Lyman KA4IUF Gary	K4GHJ Donn
7 PM to 12 Mid	KB4OKB Dave WD4IEQ Lou	KB4OKB Dave KC4GFP Doctor	KB4OKB Dave WD4EIQ Lou	KB4OKB Dave WB4TNC Chuck	KB4OKB Dave WD4EIQ Lou

SPECIAL INSERT

ss Duty Schedule

lots have been filled. However, we do need volenteers for the you're free during the day or can take some time off of work, not home (787-8874).

SU

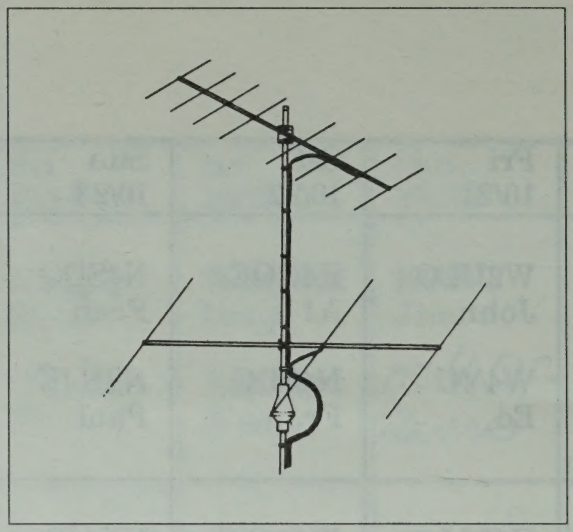
Wed 10/19	Thur 10/20	Fri 10/21	Sat 10/22	Sun 10/23
W2ULO John	W2ULO John	W2ULO John	K4GOE Al	N4SDQ Fran
W4YC Ed	W4YC Ed	W4YC Ed	N4SDQ Fran	N2HJK Paul
K4GHJ Donn	KB4OKB Dave	K9PM Paul	WA9SZL Johnnie	KK4JB John
KK4JB John	WA4SKH BEN	N4SSU Edward	N4LQR Paul	N4RGG HEYWARD
N4SSN Randal	WA9SZL Johnnie	KB4OKB Dave	KB4OKB Dave	KB4OKB Dave
	N4ODA JIM	WD4EIQ Lou	WD4EIQ Lou	
	N4QWE KATHY			

SPECIAL INSERT

Leading Edge continued from page 1

To get a CW signal up on two meters requires some ingenuity or a relatively small outlay of cash. If you want to operate CW only, you might add a key line to an FM rig. You can key the PTT line and leave the microphone line open to get a CW signal on two meters. Should you desire to operate SSB, the older two meter multi-modes are ideal. The Kenwood TS-700 is a good example. These rigs can be found for a couple hundred dollars. The ten watts output is the minimum acceptable. RG-8 or RG-213 is also minimal for the uplink feedline. A better choice is Belden 9913, particularly if the transmitter only provides ten watts.

The uplink antenna is also dependent on the transmitter output. An eleven element beam is a must with a ten watt source. If the transmitter furnishes 25 watts or if you use one of the gain bricks which are available, five elements should be sufficient. Mount the two meter beam on a mast at least ten feet above the ground, or if you're using an HF beam, mount the two meter antenna above that. In either case, the uplink antenna should be rotatable. Make your own boom-to-mast bracket so that you can aim the two meter antenna up at an angle of 30 degrees. Ninety percent of the satellite passes will fall in the main lobe of your antenna. If the downlink antenna is a tribander, keep it level.



A practical set up for OSCAR is a 10 meter beam (boom horizontal) plus a 2 meter Yagi mounted with an approximate elevation angle of 30 degrees.

What satellite can you operate through on mode A? Last year, the Soviet Union launched COSMOS 1861 which carries amateur radio transponders designated as RS-10 and RS-11. Each provides mode A facilities. RS-10 receives uplink signals between 145.860 and 145.900 mHz. It repeats the signals on the downlink at 29.360 to 29 400 mHz. On RS-11 the uplink is 145.910 to 145.950 mHz. and the downlink is 29.410 to 29.450 mHz.

Obviously, I'm going to tell you to point your antenna at the RS bird. Where and when do you point it? The satellite crosses the equator headed north each time it goes around. This is called the "ascending node". An ascending node occurs every 105.0245 minutes. That is how long it takes to go around Earth. During that time Earth rotates .25 degrees per minute or a total of 26.3824 degrees. Earth rotates to the east so the ascending node is 26.3824 degrees farther west each orbit. The first ascending node after midnight GMT is called the reference node and the longitude of the reference node is given in ARRL and AMSAT bulletins. Using this reference data and your newly-gained knowledge of the satellite motion, you can calculate the longitude of each subsequent ascending node for the day or for the week.

What are you going to do with all this fascinating information? You are going to use an inexpensive graphic tracking device to determine when the satellite is above your horizon and where to point your antenna at what time. The device is called an OSCAR-LOCATOR and is available from the ARRL with complete instructions for $8.50, item number 3037. If you have a computer and are on packet, tracking programs are available on some bulletin boards. In that case you will have to learn about such esoteric things as "arguement of perigee" and "mean anomaly". I will show and tell about a homebrew Oscar locator the next time I can get to a club meeting.

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More on: More On "Ham Radio"

Just when I thought we had firmly nailed down the origin of the word "ham" radio down to three ops at the Harvard Wireless Club (see last month's EXCITER), I get a letter from the ex-Editor of the Amateur Radio News Service:

"As you know, there have been a great many scams going on throughout the nation. For some reason they go on and on and never die. One of these is included in your latest issue of the EXCITER that I received today."

The article on page 6 relative to the origin of the word "HAM" is a pure sham. It has been going the rounds for as long as I can remember, and I have included information in the ARNS Bulletin several times.

The ARRL investigated this rumor and found that several things cannot be true. First, there was no record of any Congressional meeting that is mentioned. There is also no record of these three being members of the Harvard Wireless Club. But, most important of all, the word "HAM" was used to describe amateurs long before this meeting is supposed to have taken place.

Another one where I was a victim! I wrote a blurb which started out, "Marry not a radio amateur for he is a strange being possessed of many devils". This one was stolen by a South African YL group and it permeated the world with them as the authors."

Ralph V. (Andy) Anderson, K0NL Holton, KS

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Thanks, Andy, for the correction. 'Ya know, I'm almost sorry you wrote - that story about the Congressional hearings and "HAM" radio publicity had a pleasant and convincing aura to it. Oh well. Another one of life's bubbles burst.

So here we are, fellow EXCITER readers, 4 months after the initial story, and we STILL don't know (fer sure) the origin of the word "HAM" radio. Anybody out there looking for a topic for a Masters thesis??!!??

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Ham It Up!!!

VHF / UHF SIG Meeting Minutes

August 31, 1988 de KB4EXL

The meeting was called to order by Chairman Ed Alderman, (WA4PEN) at about 7:30 PM. Present were: Ed, WA4PEN; Sherry, KB4EXL; Dave, KB4OKB (and his XYL); Peggy, N4SSS; Lou, WD4EIQ; Rob, AB4FY; Walter, KM4BU; Jim, WD4MYM; Edward, N4SSU; Ronny, WA4MJF, and Joe, KC4CPH..

The Chairman brought up the first order of business the conflict between the 6 meter FM Net and the Wed. night functions of RARS. It was agreed that the net be moved to Tues. nights at 8:30 PM. WD4EIQ volunteered to perform the duties of Net Manager for this net. It was stated that there appears to be an increasing number of RARS members interested in 6 meters, and the weekly net. The highest number of check-ins reported has been 6.

A second conflict was reported to be that of the SIG meeting night. After discussion, it was agreed that the SIG meetings be moved to the second Thursday of each month, with the next SIG meeting to be held on October 13, 1988.

Reports on progress of repeater site negotiations were given by WD4MYM, N4SSU, KB4OKB, and WD4EIQ. Due to the sensitive nature of these on going negotiations, no further details will be made known to the public.

A status report on the existing repeaters was given, and the 220 machine was reported to have more de-sense problems than was initially thought. The 6 meter repeater also needs work. The 450 repeater only needs a controller. Needed items would be looked for at upcoming hamfests.

It was agreed that the VHF/UHF SIG would present the program for the December RARS meeting.

Chocolate Eclair cake was served for refreshments, and KB4OKB won the door prize for the evening.

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Outgoing QSL via Bureau

Take advantage of the RARS Outgoing QSL Bureau Service. Bring your cards to the meetings and give them to John, KK4JB.

Here is a recap of the rules that the ARRL Bureau imposes on us.

1. You MUST be an ARRL member to use the service. Include the QST mailing label from your CURRENT issue with your cards.

2. Blind members who do not receive QST need only include a note indicating the cards are from a blind member.

3. Presort your QSL cards by call sign prefix, i.e. CO4 CY2 C9 DL9 8P etc.

4. The ARRL QSL service should not be used to exchange QSL cards within the 48 contiguous states.

5. Restrict the dimensions of your QSL cards to a height of 2 3/4 to 4 1/4 inches and a width of 4 3/4 to 6 1/4 inches.

6. Although the ARRL supports 270 DXCC countries, there are somecountries that do not have bureaus, and therefore cannot be supported by the ARRL service. Please do not

include QSL's for the following prefixes.

A5 A6 A7 BV C9 D6 ET HZ J5 KC4 KC6 KH1 KH3 KH5 KH7 KH9 KP1 KP5 P5 S9 T2 T3 T5 TJ TL TN TT TY TZ V4 VP2E VR6 XT XU XW XX9 XZ YA ZA ZD7 ZD9 ZK2 ZK3 3C 3V 3W 3X 4W 5A 5H 5R 5U 5X 7O 7Q 8Q 9G 9N 9U

In August, four RARS members submitted 163 QSL cards to the service. ought.

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ON THE ROAD AGAIN!

RARS member Ron Oates, AA4VK, and Bert, WA4TLI, will be heading for Aruba for the CQWW Phone Contest October 29th and 30th. Ron will be operating 10 meters signing P40VK and Bert will be operating 15 meters, signing P40TL. And with call signs like that, I'm sure they'll be quite sought after on the bands!! Best of luck to you both!

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FOR SALE!!

Complete Drake 4-C Line—Mint Condx!!

R4-C receiver, w/ 4-NB Noise Blanker, & 4 filters. T4XC transmitter w/ AC-4/MS-4 power supply and speaker. C4 Console, MN-2000 Tuner, FS-4 Frequency Synthesizer

$800.00 (firm) Darrell WA4ABS
839-1024

REVENGE PHONE

The latest hardware off the drawing boards of the Sony Corporation is an astounding new telephone capable of stopping obscene and lecherous callers before they can draw a second breath. The unique innovation is the Sony Corporation's Revenge Telephone that launches an immediate offensive simply by depressing a control key. The instrument has three attack modes: one activates a recorded voice that is a loud and bilious male who bellows at the unwanted caller "What in the h___ do you want, pervert?"

The second option will devastate the crank caller with a 120 decibel tone, that is actually loud enough to cause ear damage. The third attack mode records the caller's message and plays it back to them. The Revenge Phone is being marketed only in Japan, but is scheduled for worldwide sale in the near future, Sony reports.

(Tnx, TE&M Magazine)

Images by Swanson

Portraits • Weddings • Commercial

Thomas Swanson
782-0791

5729 Wintergreen Dr.
Raleigh, NC 27609

'NEW LINE

by Bruce Eggers, WA9NEW

ELECTION DAY DRAWS CLOSE

Two able candidates for the top post. The votes will be counted in November and we'll know who will lead us into the last decade of the century. It's democracy in action! Will your vote count? If you're a Full Member of the ARRL as of Sept. 10 it will! No, I don't mean Bush vs Dukakis. I mean N4MM vs W3ATQ. It's nearly election time in the Roanoke Division. W4UG has declined to serve another term as Director. Gay has served us well in the Division for eight years but it's time to pass the baton. Thanks Gay. You'll always be welcome at any RARS function and we certainly hope you'll mark April 16, 1989 on your calendar and be with us for the RARS Hamfest.

So who will represent us on the Board in the future? Well, like the GOP, the number two man of the Eighties seeks the top job for the Nineties. He's John Kanode, N4MM. I've known John for close to 15 years. He's an active DX'er, played a key role in moving the 4th district QSL Bureau to Sterling Park, VA back in the early Seventies when the group in Florida seemed not to be able to meet their responsibility. Later, when Phil, W4ACY, RARS Life Member, passed the Director's baton to W4UG, N4MM was elected to the post of Vice Director. John has served us well. He's been to RARS Hamfests, he's travelled all over the Division, and he's filled in for Gay at Board meetings when Gay's health became a problem. We all owe John a big TNX and a long toot of the RARS' whistle for his service to the ARRL and Amateur Radio in the Roanoke Division. And who is the opponent?

Well, I understand some '3' has been nominated to serve as Director of the Roanoke Division! How could that be? Hey, the rules changed! Ten years back, when I was asked to run for SCM in a New England Division Section, I had to say no. There was no way a '9' could be elected to serve as SCM in '1' land. So I served as campaign manager for a fellow I knew would do a good job. He got elected and he did a super job. He went on to serve as Vice Director. I note the Virginia Section didn't mind having a '9' as Section PAM, the 4th Region didn't mind having a '9' serve as a Region Net Manager, an EAN Manager didn't mind having a '9' as an NCS, and RARS didn't mind having a '9' serve as its president. Would Roanoke Division hams 'mind' having a '3' as Director? I think not. What you have to know is that Claude, W3ATQ, had first set root in the Roanoke Division back in '49, has been licensed over 50 years, has been a League member since 1939, and has held just about every post in the Field Organization that has ever existed. He's active in traffic, up on both HF and VHF Packet, an A-1 Op, and a MARS member. Now, an excellent public service communications record is neither a necessary nor adequate prerequisite for service as Division Director. But for as long as 97.1(a) is in first place in the 'Basis and Purpose' department for the Amateur Radio service, my vote will always go to the ham with the best credentials in that role. And that is W3ATQ.

All ARRL members must consider their own interests. All RARS members who are

RARS EXPEDITION TO MOUNT MITCHELL STATE PARK

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> W4DW will operate from Mt. Mitchell State Park, the highest elevational point east of the Mississippi River, on October 15-16.

PURPOSE: to have fun and to practice temporary operation away from the home base station and away from power mains.
LOCATION: Mount Mitchell State Park summit parking lot.
LIMITS OF OPERATION TIMES (from parking lot):

Saturday	October 15	7:00 AM to 7:00 PM
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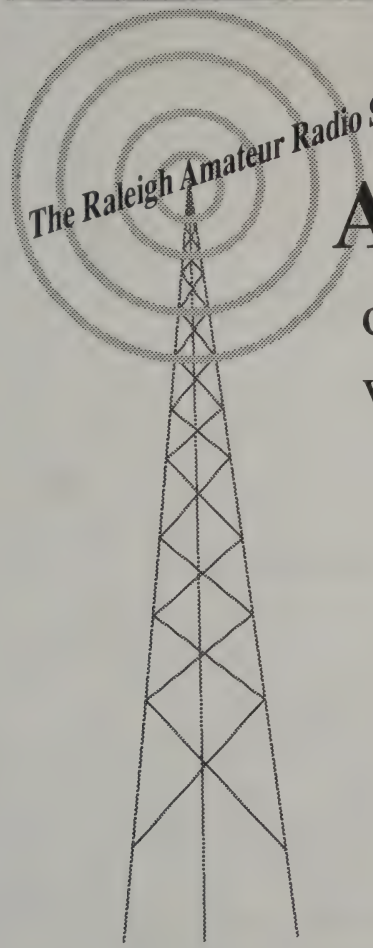
Electronic Enthusiasts, Spouses of "Hams", People of all ages



Rescheduled : beginning October 10th

Amateur Radio Licensing Classes

open to anyone with an interest in public service, world communications, or electronics.

Classes begin at the McKimmon Center on the NC State Campus on October 10th and continue on Monday and Thursday evenings (7:00 to 9:00 PM) until November 17, 1988.

The course of study includes regulations, simple electronic theory, and Morse code to prepare for FCC Amateur Radio examinations for Novice and Technician licenses. Note : This is an entry level course. No prior study required.

Cost — NCSU Fee: $12 Text and materials: $15-25

To Register, call NCSU McKimmon Center at 737-2265.
For further information call club members Jim DuBreck at 781-9437 (evenings) or Vince Yakamavich at 847-8512 (evenings), 850-5390 (work).

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DETAILS: We have permission from the Acting Superintendent to operate during park hours from the summit parking lot (running water, toilets, snacks at the concession stand). We CANNOT stay in that parking lot overnight. In October the parking lot is cleared just before 7:00 PM and the access gate one mile away is closed and locked.
The park campground with running water and toilets (no showers) is on a first-come basis at $7 per tent site. The ranger says that we may operate our radios there during the night to our hearts content. The tent sites progress up a west-facing slope. The lower tent sites have OK trees (or skeletons). There is a small parking lot with OK trees.
We may also stay overnight on the edge of the park access road beyond the (locked-at-night) main gate (2 miles from the summit).
We will be locked in the park overnight (standard procedure), however the park campground is adjacent to the rangers' cabins. They have a telephone and the Mitchell repeater is line-of-sight.
The summit parking lot is a 1-1/2 turn spiral, and we will locate on the lower portion to take advantage of the trees on the southeast rim and the picnic area on the north rim.
We MUST NOT interfere with traffic or other visitors. Erection of antennas must be temporary in nature, non-damaging to the trees, and safe to the public and ourselves. Ground rods we will have to play by ear.
As it stands, we must remove the antennas during the overnight period. But perhaps there will be the chance to negotiate that with the Ranger after he views our setup.
We have advertised operation for Saturday and Sunday on the 80-15 phone bands and the 10 meter Novice phone segment. What we operate depends on what the participants bring, hours of operation, and bands conditions.

MAPS ARE ON THE REVERSE SIDE OF SHEET

73, Steve Modena AB4EL

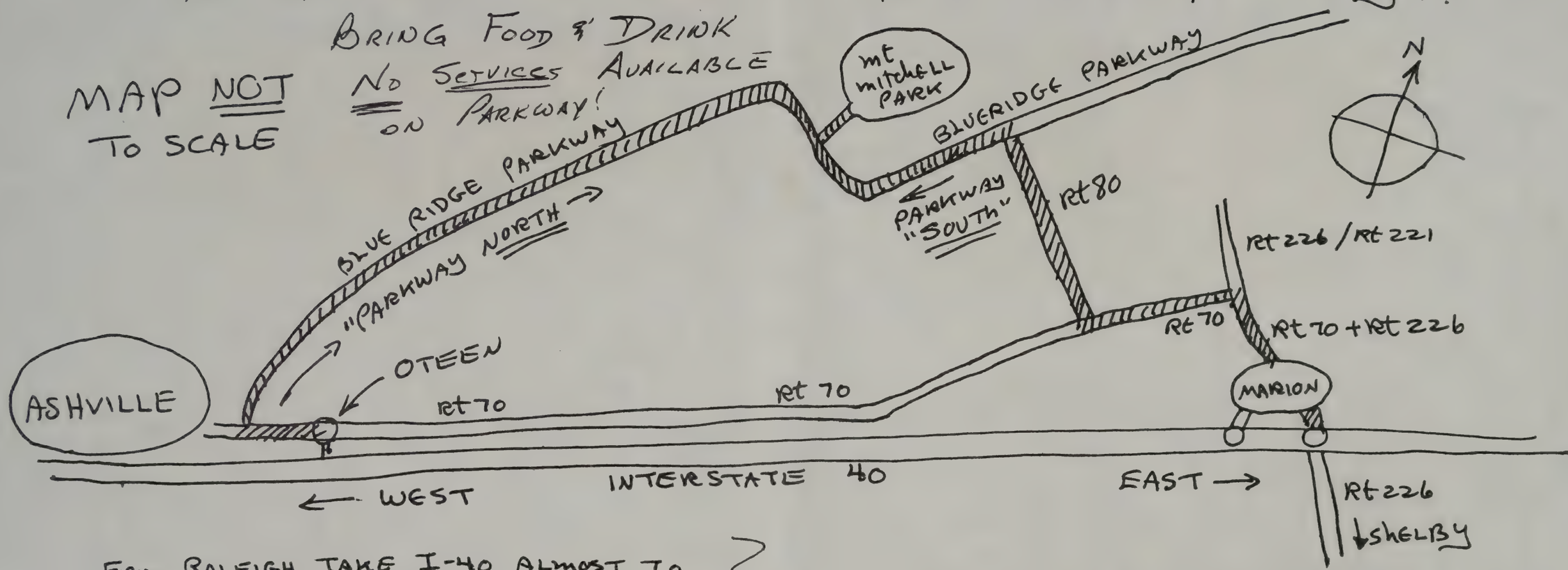
WEEKDAYS: TEL. 737-2246 / EVENINGS: 737-2246
LEAVE YOUR NAME & NO. WITH SECRETARY / I WILL ANSWER IF THERE.

NO GASOLINE AVAILABLE ON BLUE RIDGE PARKWAY!!

BRING FOOD & DRINK

MAP NOT TO SCALE

NO SERVICES AVAILABLE ON PARKWAY!



FROM RALEIGH TAKE I-40 ALMOST TO ASHVILLE. GET OFF AT OTEEN EXIT. TURN LEFT ON Rt 70 TOWARD ASHVILLE. BLUE RIDGE PARKWAY ENTRANCE IS MARKED. TAKE PARKWAY NORTH. THEN 30 MILES TO Mt MITCHELL PARK ENTRANCE. LEFT INTO PARK. KEEP GOING TO THE SUMMIT TOWER.

THE MARION ROUTE IS >1 HOUR LESS THAN ASHVILLE ROUTE BUT REQUIRES MUCH MORE NAVIGATION. BOTH ROUTES ARE BEATIFUL.

FROM RALEIGH GET OFF I-40 AT FIRST MARION EXIT (MARION/SHELBY/Rt 226). TURN RIGHT AND GO THROUGH MARION, PICKING UP Rt 70 on NORTH WEST SIDE. THEN ROUTE 70 TURNS LEFT (SEE MAP). WATCH for Route 80 on RIGHT AT THE INTERSECTION WITH GASOLINE/ITALIAN RESTAURANT/MOTEL. AFTER AWHILE THE ASCENT BEGINS. MANY TURNS ARE MORE THAN 90° — WATCH IT!! WHEN YOU REACH THE PARKWAY, TURN LEFT AND LEFT TO GO "SOUTHWARD". AT PARK ENTRANCE TURN RIGHT AND KEEP GOING TO TOP.

ARRL members should vote. John, I wish you the best of luck. If you win the Director's seat, I'll support you all the way. But I'll vote for Claude and I want to encourage RARS members to support W3ATQ in his bid for the Division Director's job. May the best man win.

• •

N4MM FOR DIRECTOR!

Virginia Beach — ARRL Roanoke Division Convention — Sept. 17, 8:00 AM .

Not even half way through the first "pass" on the floor, you notice quite a few folks are wearing "N4MM for Director" badges. The yet empty vendor tables each have a flier declaring "N4MM for Director." By they the time the day is over, it seems almost EVERYBODY is wearing a "N4MM for Director" badge.

Why is this? Certainly N4MM's competition is qualified for the job. The W3ATQ fliers are found in a neat stack on the center podium. Yet, no one seems to be openly supporting Claude in the manner John is enjoying. Why is this?? Claude Feigley, W3ATQ lists on his flier his qualifications and numerous awards and appointments: SM, STM, NM, ORS, OO, EC, TC, TCC, EAN, 4RN, and IATN. He operates HF-VHF packet & RTTY, participates in ARMY MARS, and is a Life Member of QCWA. Holds a 40 WPM code proficiency, and A-1 Operator's certificate. Has held numerous appointments within the ARRL field staff. "My 50 years of involvement in all phases of amateur operation and administration provide me the background to make mature and knowledgeable decisions..."

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But these same people offering the criticism were SUPPORTING John Kanode, N4MM. "Why?" I asked. "Because John can GET THE JOB DONE in the Roanoke Division!" SEVEN YEARS SERVICE in the Number 2 chair in the Division (Vice Director). Another 7 years in the Number 3 chair (Assistant Director). That's a total of FOURTEEN YEARS of experience representing US, the Roanoke Division membership. FOURTEEN years of preparation for holding the Number 1 Chair in the Division. John has traveled throughout the Division. John KNOWS the division.

Yes, John is also an active ham, who participates in chasing DX, working VHF & UHF, and participating in Public Service. But in addition to that, John has participated in ALL of the past 16 ARRL Board Meetings. John knows how to get things DONE in the division. John has been to the RARS Hamfest. John has submitted reports to OUR club of Division Happenings. John Kanode, N4MM, has my vote for Division Director, and the votes of many other supporters. I hope he has your vote as well. — *Vince AA4MY*

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AMATEUR RADIO - A NATIONAL RESOURCE

Raleigh Amateur Radio Society, Inc.
P.O.Box 17124
Raleigh, NC 27619

Bulk Rate
U.S. Postage Paid
Raleigh, NC
Permit No. 1731

MR. SHERMAN STARNES W4TZU
ROUTE 1, BOX 99
FRANKLINTON NC 27525

RARS meets each first Wednesday, 7:30 PM
Raleigh YMCA, 1601 Hillsborough Street
Downtown Raleigh
RARS Net: Nightly at 8:00 PM on 146.04/64

Events Calendar

OCTOBER 1988

05 Regular RARS Meeting w/Exams 7:30 PM, YMCA. Preregister for exams w/ AA4MY @ 847-8512.

09 HAMFEST! Maysville, NC

14-23 NC State Fair: RARS Public Service Project - N4SSU Chairman.

15-16 Boy Scouts Jamboree on the Air. See QST 10/88.

RARS Expedition to Mt. Mitchell. AB4EL Chair.

ARRL Simulated Emergency Test - Stay Ready!

19 RARS Advisory Board Meeting: YMCA @ 7:30 PM. All Welcome.

Deadline for November EXCITER material.

26 EXCITER Fold & Staple Party: AA4MY @ 847-8512.

29-30 CQWW DX Contest - Phone.

November 2 RARS Annual Auction